ABCS 7.0 Overview

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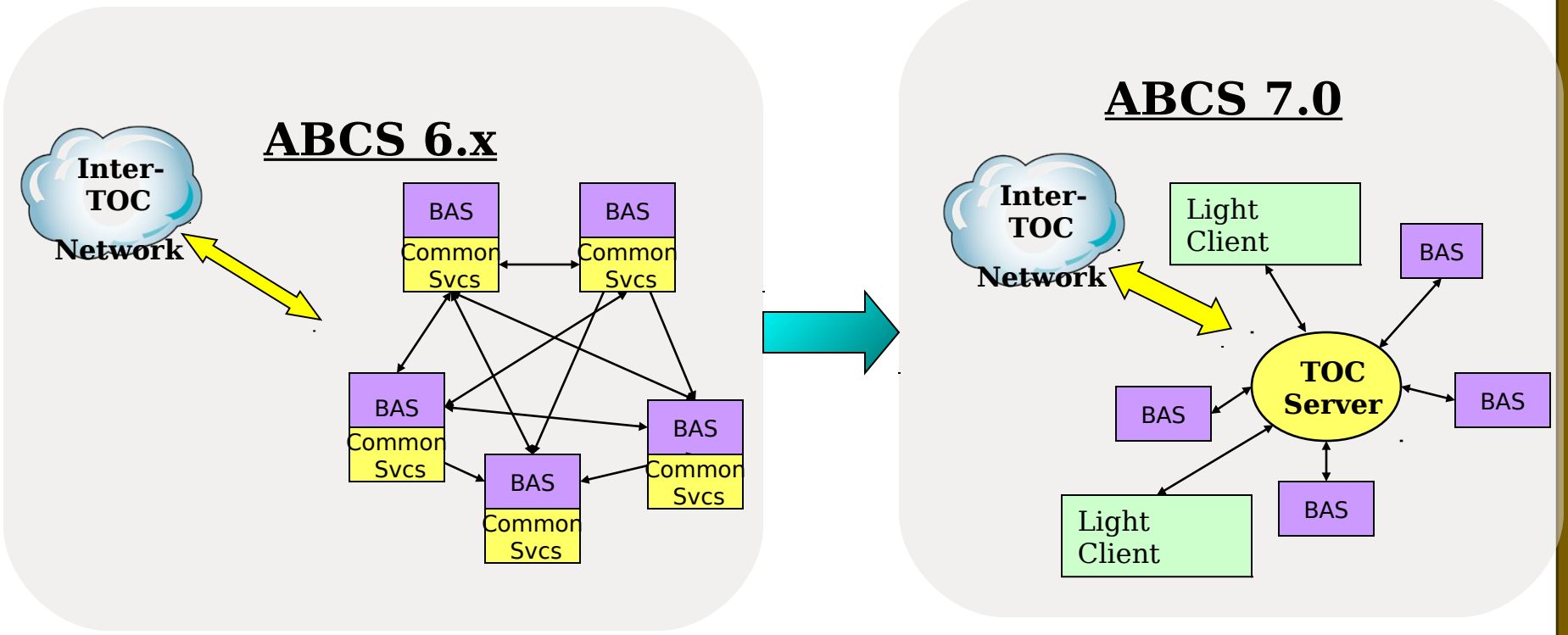
ABCS Architecture Migration

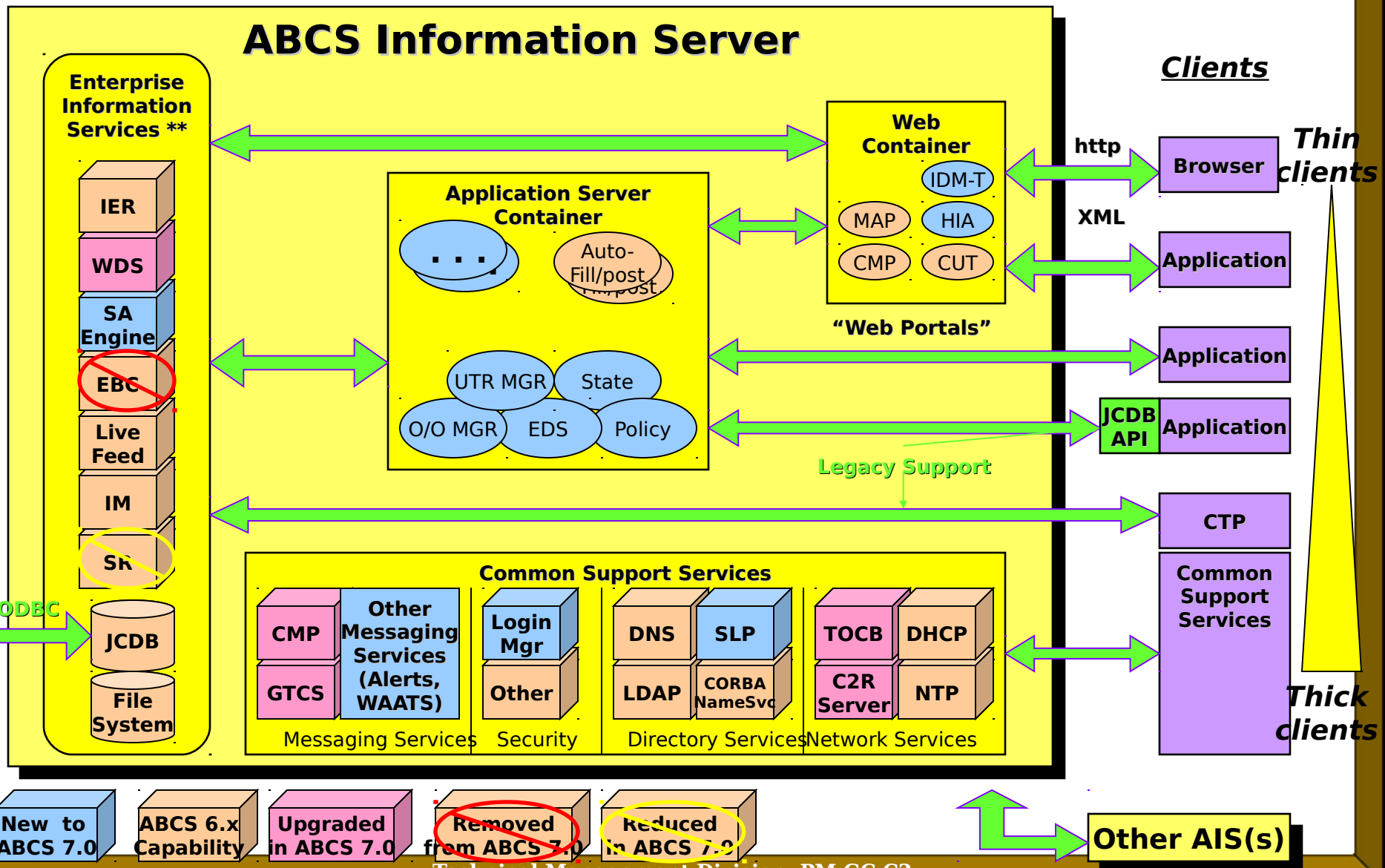


GOAL:
Improved Performance, Robust, Affordable, Supportable, Easy to Operate

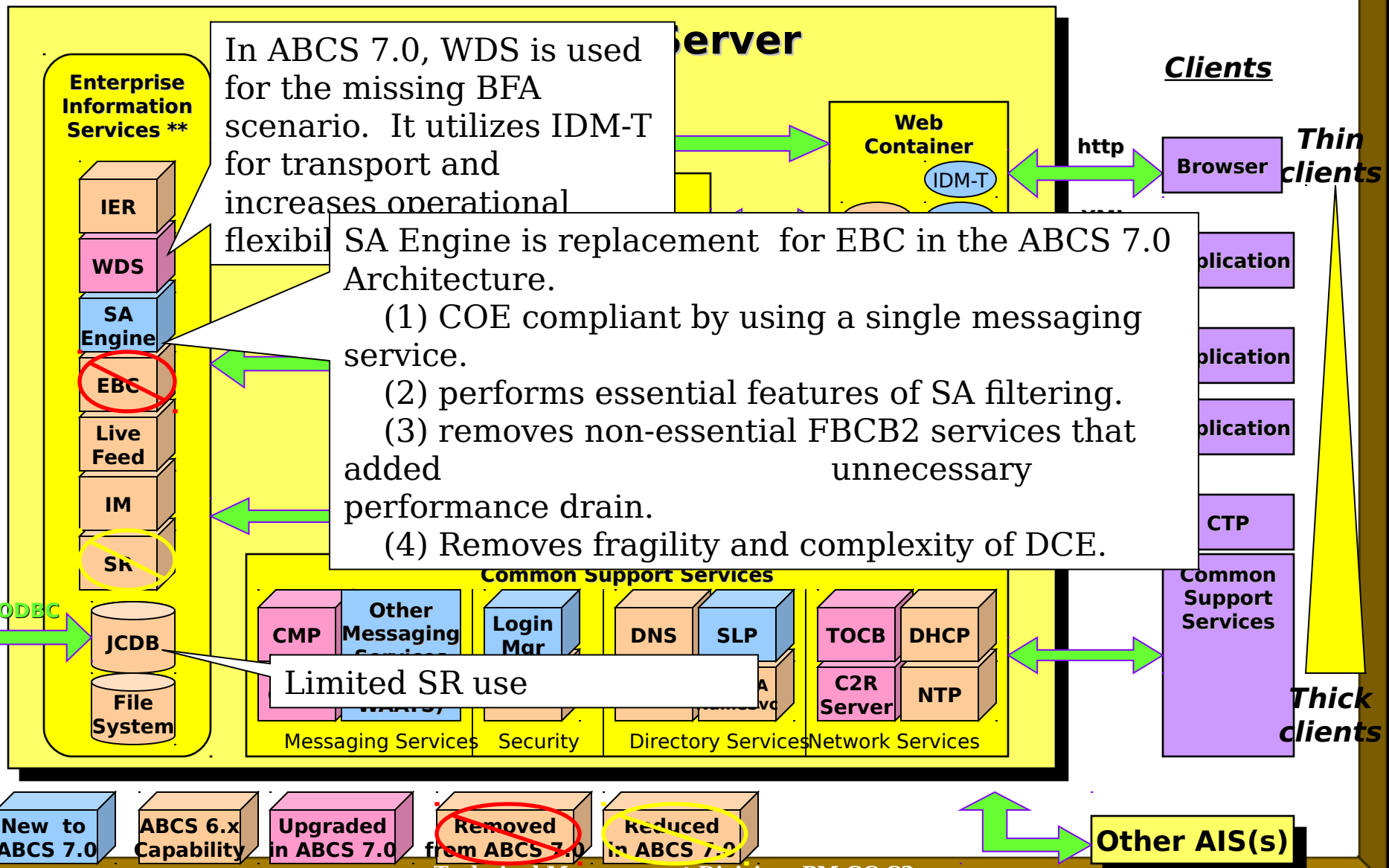
ABCS 7.0 Design

- Changes
  - Move to a dedicated TOC server
  - Support migration to web based commercial model
  - Simplify situational awareness data distribution
- Challenges
  - Retain support for BAS application interfaces
  - Fix problems/improve performance

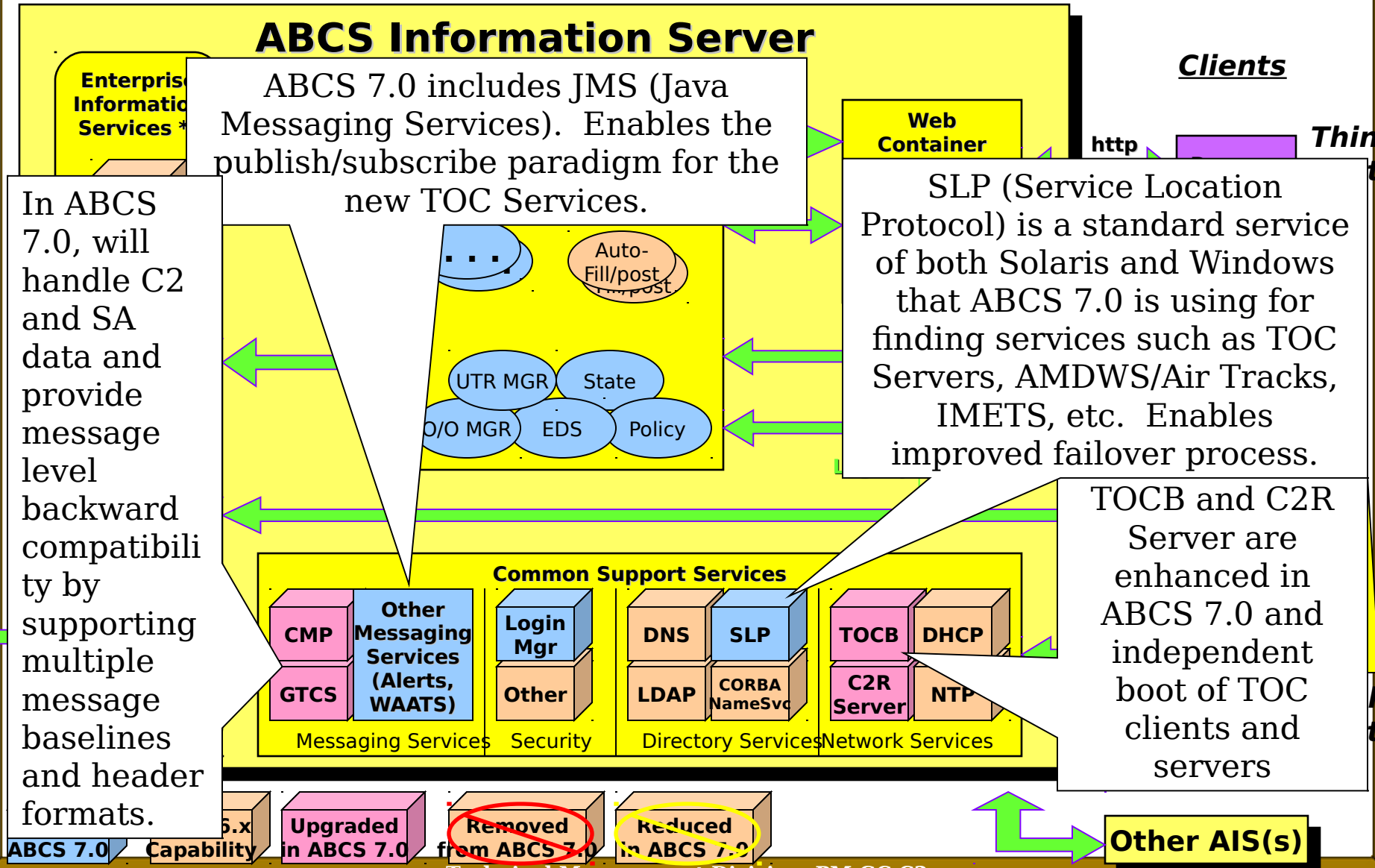
ABCS 7.0 Architecture



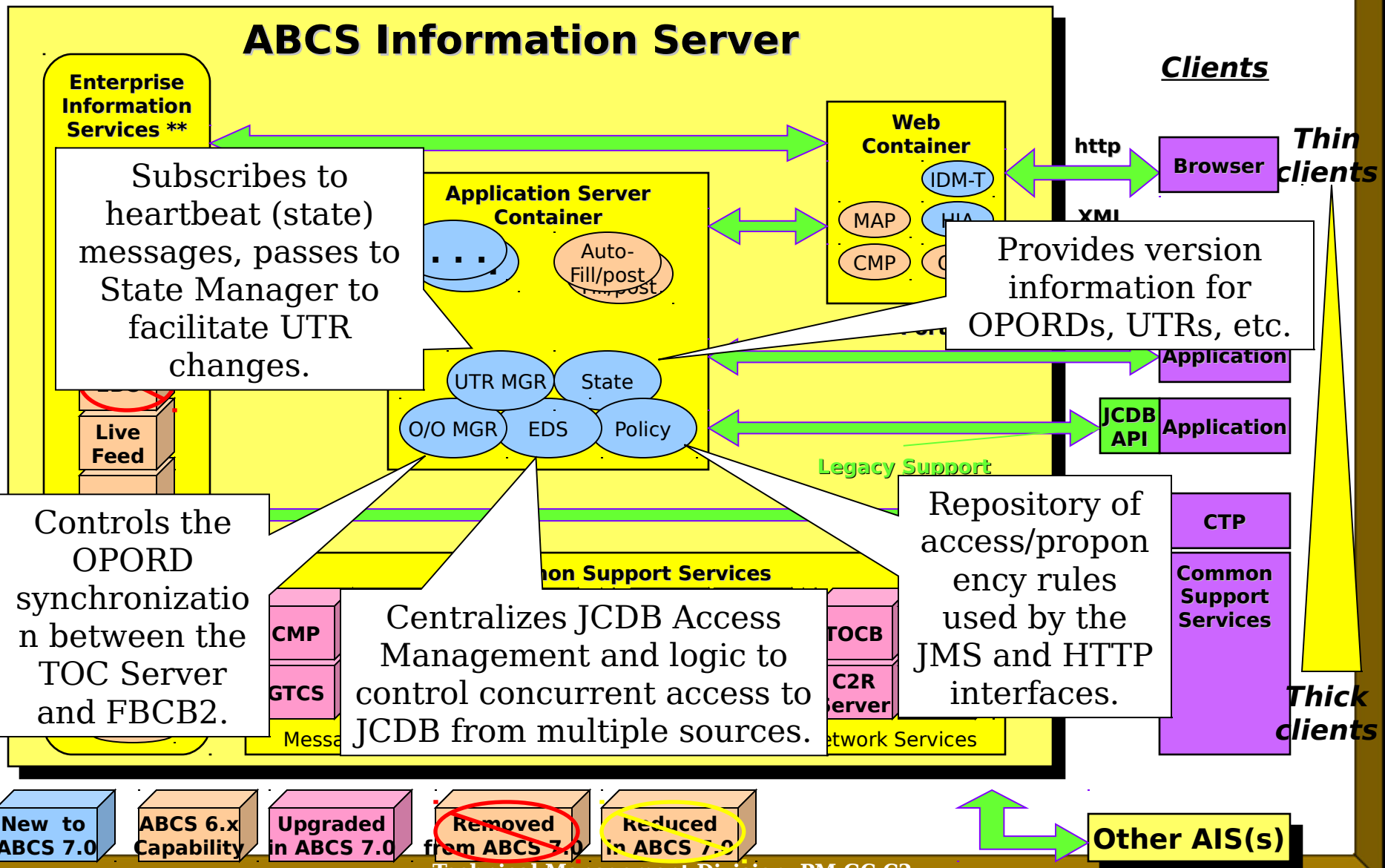
ABCS 7.0 Architecture



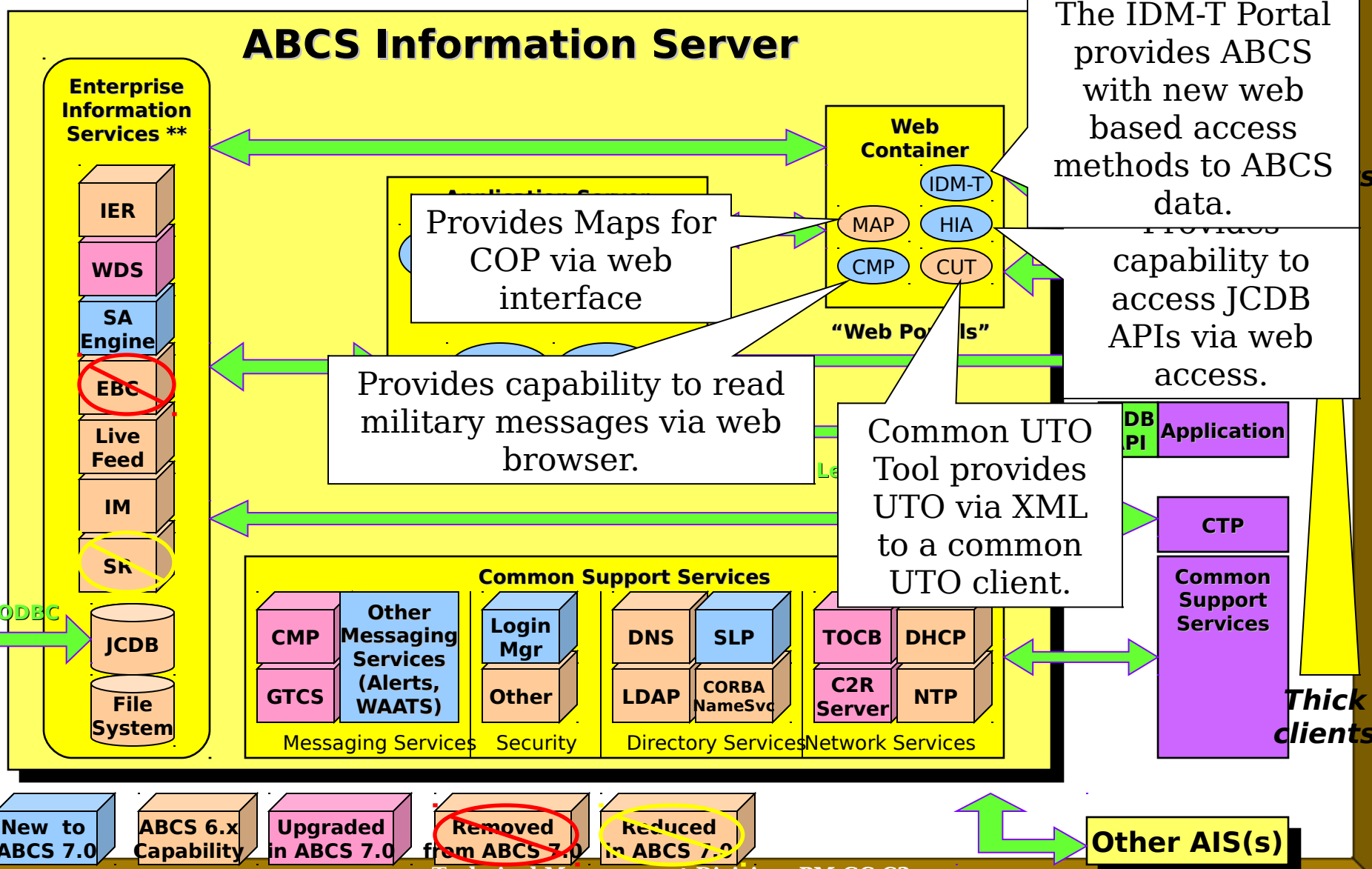
ABCS 7.0 Architecture



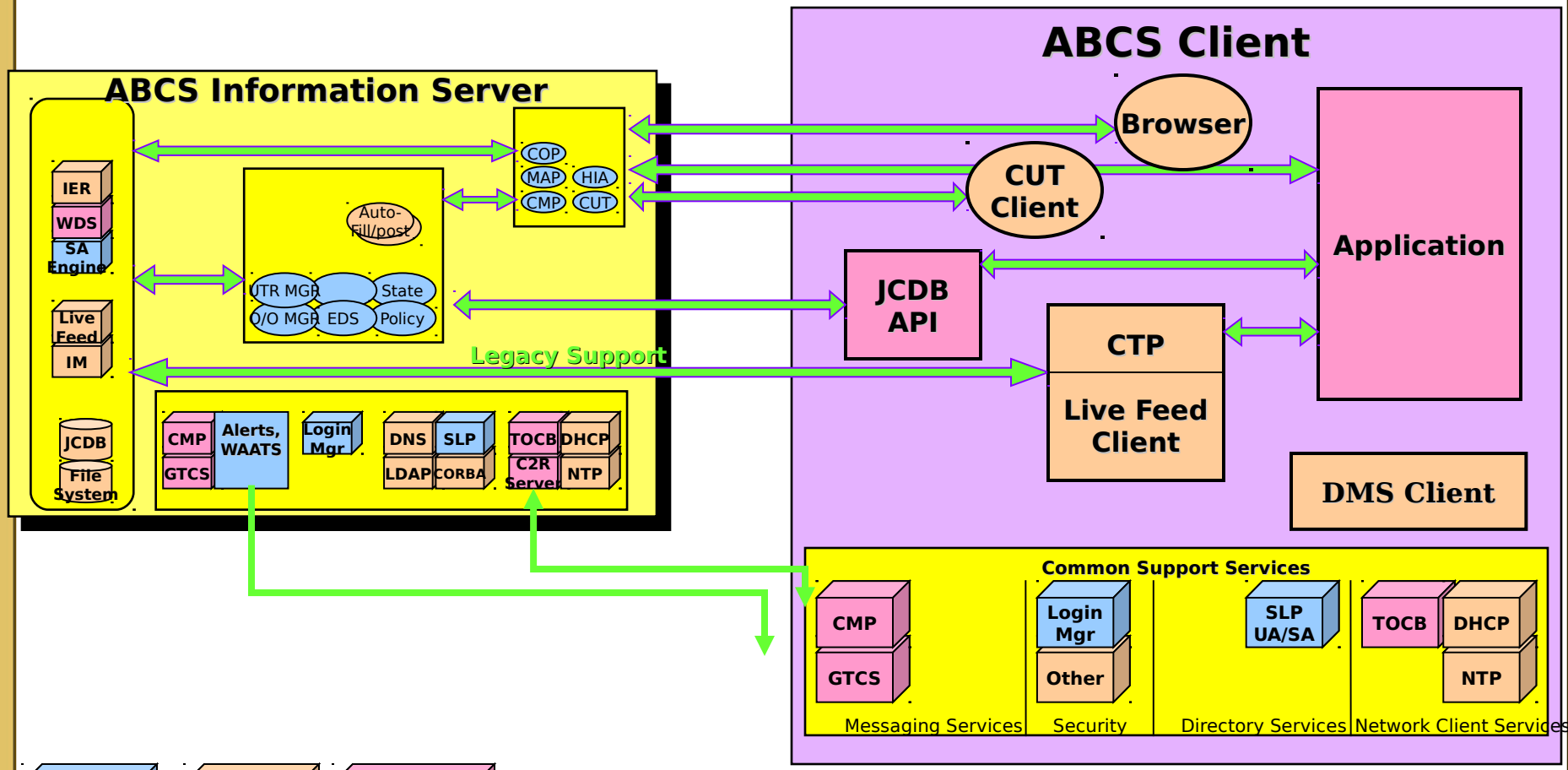
ABCS 7.0 Architecture



ABCS 7.0 Architecture



ABCS 7.0 Client



Preliminary Server Product Allocation

AIS Server

Component / Platform Allocation

(As of May 2002 CDR)

•AIS Server

•SUN ULTRA III

- •Solaris 8
- •COE Kernel
- •COE BIND (ISC)
- •Perl, TCL/TK
- •Java2
- •TOC Boot Control
- •C2R
- •Enterprise Web Server (iPlanet)
- •LDAP Directory Server (iPlanet)
- •MACI Scripts APM
- •TAO (AceORB)
- •JacORB
- •SA Engine
- •CMP
- •COMMS Server (GTCS)
- •JCDB, EDS, WDS
- •Informix Dyn Server, IER
- •CTP (IM, LFS)
- •Security Tools (SOS, SPCFG, SSAF, SSAFAP, SARA, Unishred Pro, Crack, Hosts KPC, RealSecure)
- •IDM-T/WAATS
- •Alerts Client
- •Netscape Web Browser
- •DII COE Print Server
- •DUT
- •Fvwm2
- •MACI Process Mgt
- •Sun One App Server
- •SAMBA
- •Acrobat Reader
- •SA Adapter
- •State Manager
- •FBCB2 Services
- •Netscape SuiteSpot Server
- •OWNPOS
- •MySQL
- •SOAP Adapter
- •SR
- •Common UTO Tool

•PCI Card (INTEL / AMD Processor)

- •Windows 2000 Server
- •COE Kernel
- •TOC Boot Control
- •Perl, TCLTK
- •Java2
- •JCDB EDS API
- •Acrobat Reader
- •Netscape Web Browser
- •TAO
- •JacORB
- •Security Tools (SPI, SSAF, SSAFAP, Norton Antivirus, Nessus, BlackICE)
- •Winzip
- •ABCS Map Server, Arc IMS, Arc SDE, ESRI SDE
- •IMETS
- •Informix
- •Enterprise Web Server (iPlanet)

Preliminary Client Product Allocation

AIS Client

Component / Platform Allocation

(As of May 2002 CDR)

•Solaris Client

•BFA/BAS
•Application Suite

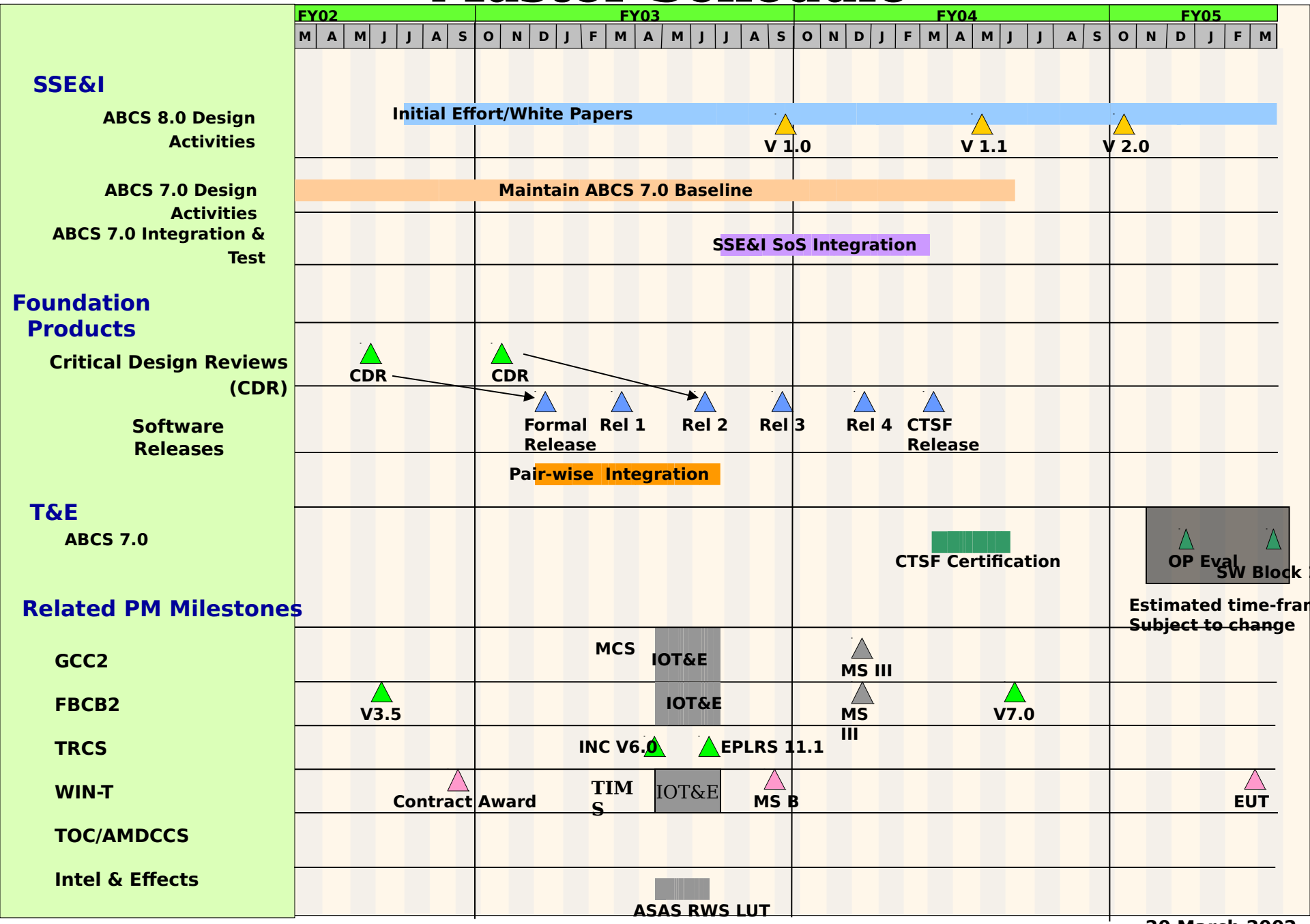
- •Solaris 8
- •COE Kernel
- •Perl, TCL/TK
- •Java2
- •TOC Boot Control
- •C2R
- •Netscape Web Browser
- •DMS Client (NEXOR)
- •CMP
- •COMMS Server (GTCS)
- •JMTK (JMV)/IFL
- •Informix Client
- •CTP (Client Apps)
- •ABCS Map Server Client
- •Security Tools (SOS, Sara, SPCFG, SSAF, SSAFAP, Unishred Pro, Hosts KPC, RealSecure, Crack)
- •MACI Scripts for APM
- •DUT
- •fvwm2
- •GTAR
- •Alerts Client
- •JCDB EDS API
- •TAO
- •JacORB
- •MACI Process Mgt
- •Acrobat Reader
- •A2C2 Airspace Client
- •DII COE Print Services
- •DTSS Overlay Client
- •IMETS Client
- •CTP Clients (LFC, CTP)
- •SunForum
- •TransArc DCE
- •Common UTO (Client)
- •Star Office

•Windows Client

•BFA/BAS
•Applications

- •Windows 2000 Pro
- •COE Kernel
- •Perl, TCL/TK
- •Java2
- •C2R
- •DMS Client(Outlook)
- •CMP
- •JMTK (JMV)/IFL
- •TOC Boot Control
- •Netscape Web Browser
- •Map Server Client
- •Security Tools (NoTrace, SPI, SSAF, SSAFAP, Norton AntiVirus, Nessus, BlackICE)
- •Common UTO Tool(Client)
- •WinZip
- •Alerts Client
- •TAO
- •JacORB
- •JCDB EDS API
- •Acrobat Reader
- •MS Office
- •DTSS Overlay Client
- •Comms Server (GTCS)
- •Microsoft NetMeeting

Master Schedule



20 March 2002

Summary

GOAL: Improved Performance, Robust, Affordable, Supportable, Easy to Operate

- *Performance* is improved by simplifying the data dissemination process, reducing computationally intensive processes like SR and EBC and providing upgraded communications and hardware platforms.
- *Robustness* is improved by leveraging the client/server architecture, decoupling processes with web service publish/subscribe capability and adding improved data management capabilities such as EDS, TDDM, State Management and Policy.
- *Affordability* is addressed through the use of laptops and less expensive COTS hardware and software.
- *Supportability and Ease of Operation* are improved with integrated data initialization capabilities, backward compatibility to ABCS 6.x and SLP based Failover processes.